

AMENDMENTS TO THE SPECIFICATION

In the Abstract:

A carbonylation catalyst useful for producing esters and carboxylic acids ~~from reactants including lower alkyl alcohols, lower alkyl alcohol generating compositions such as ether and ester derivatives of the alcohols, and mixtures thereof~~ in a vapor phase carbonylation process, ~~said wherein the~~ catalyst includes a solid component having a catalytically effective amount of platinum and tin associated with a solid catalyst support material and a vaporous halide promoter component.